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PUBLICATION NUMBER : 09304303
PUBLICATION DATE : 28-11-97

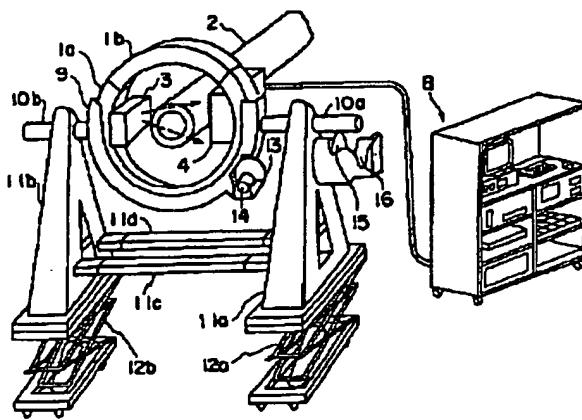
APPLICATION DATE : 15-05-96
APPLICATION NUMBER : 08119851

APPLICANT : HITACHI ENG & SERVICES CO LTD;

INVENTOR : KOMATA HISASHI;

INT.CL. : G01N 23/04 G01N 23/18 // A61B 6/03
G21K 5/02

TITLE : PORTABLE X-RAY CT DEVICE



ABSTRACT : PROBLEM TO BE SOLVED: To reduce the time required to perform non-destructive examination on an immovable subject for examination using computerized tomography.

SOLUTION: A portable X-ray CT(computerized tomography) device includes an annular rotor 1 designed, so that it can be partially removed and mounted, and mounts and dismounts both an image sensing device 4 and an X-ray generator 3 providing fluoroscopic images and also includes a rotor bearing device 9, a frame 11, and a lift 12, which can vary the inclination of the rotor 1 and achieve movement of the rotor 1 in the vertical direction; and an image processing device 8 which displays in real time a fluoroscopic image of a subject 2 for examination, by means of signals output from the image-sensing device 4 and which performs image reconfiguration process, based on image data in the circumferential direction of a predetermined cross section, contained in fluoroscopic data, to originate and display a tomogram of the predetermined cross section. The subject 2 for examination is positioned within the annular rotor 1, and as the rotor 1 is rotated around the subject 2 for examination, a fluoroscopic image is taken, and the tomogram is obtained based on the fluoroscopic image obtained.

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